Classification: Mechanical Engineer	**Position No.** 770-3583-011
CBID: R09	**Office:** Engineering
Date Prepared: March 29, 2019	**Division:** Siting, Transmission and Environmental Protection
KEY: (E) IS ESSENTIAL, (M) IS MARGINAL	

CONFLICT OF INTEREST STATEMENT

This position is designated under the Conflict of Interest Code: YES ☒ NO ☐

If yes, this position is responsible for making or participating in the making of governmental decisions that may potentially have a material effect on personal financial interests. The appointee is required to complete Form 700 within 30 days of appointment, which identifies pertinent personal financial information.

Under the supervision of the Engineering Office Supervising Mechanical Engineer and the technical direction of a Senior Mechanical Engineer, the Mechanical Engineer independently performs investigations of incidents and accidents at, and inspections of, power plants and ancillary facilities. The incumbent performs mechanical engineering, facility design, power plant efficiency and reliability, energy, noise and vibration, hazardous materials and waste management, and worker safety and fire protection including wildfire analyses involved in the planning, siting, design, construction, operation, and demolition of power generation plants and related facilities, including transmission line projects. Depending on training and experience and the alternate range criteria met, the incumbent will perform mechanical engineering-related analyses and other related work at the entry, first working or journey level. The incumbent may function as a member or a leader of an interdisciplinary team, or coordinate the efforts of representatives of various governmental agencies.

DUTIES AND RESPONSIBILITIES: While performing the duties described below, the incumbent will be required to work independently and/or in a team environment utilizing a personal computer and appropriate Energy Commission software such as word processing, electronic mail and Internet; and to participate in and lead meetings with other staff and with other agencies. The incumbent will:

PERCENTAGE OF TIME PERFORMING DUTIES	**INDICATE THE DUTIES AND RESPONSIBILITIES ASSIGNED TO THE POSITION AND THE PERCENTAGE OF TIME SPENT ON EACH. GROUP RELATED TASKS UNDER THE SAME PERCENTAGE WITH THE HIGHEST PERCENTAGE FIRST; PERCENTAGE MUST TOTAL 100%.**
55%	Conduct investigations of incidents and accidents at, and inspections of, power plants and ancillary facilities, and prepare reports and recommendations to ensure that energy facilities are properly constructed and operated in accordance with Energy Commission certification requirements. Monitor construction and operation of licensed facilities to assure their conformance with licensing requirements. Prepare mechanical engineering, facility design, power plant efficiency and reliability, energy, noise and vibration, hazardous materials and waste management, and worker safety and fire protection including wildfire analyses involved in the code compliance, planning, siting, design, construction, operation, and demolition of power generation plants and related facilities, including transmission line projects. The analyses are in the form of published staff assessments and written and oral technical testimony, which are presented at Energy Commission hearings and discussed at public workshops. The analyses include evaluating facility design; potential impacts and appropriate mitigation measures; and determining the ability of the facility to comply with applicable laws, ordinances, regulations, and standards. (E)

15%	Develop compliance monitoring requirements and verifications related to noise and vibration, and facility design to ensure that proposed facilities are properly constructed and operated in accordance with Energy Commission certification requirements. (E)
10%	Review and evaluate the mechanical engineering and related aspects of hazardous materials and waste management technologies and worker safety and fire protection as applied to thermal power plants and related facilities. Review and evaluate the mechanical engineering aspects of power plant jurisdictional determination. This may include the evaluation of system and equipment design, performance and reliability, as well as alternatives to the proposed facility. (E)
5%	Evaluate the efficiency and reliability implications of energy generation, supply, and end use strategies as input to energy policy development. (M)
5%	Coordinate with other environmental, regulatory, and administrative agencies, universities, business organizations, and special interest groups to assure their input into Energy Commission or interagency programs. (M)
5%	Evaluate existing and proposed governmental laws, ordinances, regulations, standards, and policies as they pertain to power plant design. (M)
5%	Perform other duties as required, consistent with the specifications of the classification. (M)

WORKING CONDITIONS: The work is performed primarily in an office, conference room, and/or hearing room environment and may require standing and walking as well as sitting for long periods of time. The work area is well lighted, ventilation is adequate, and the noise level may be high. Travel is required to attend offsite meetings or to participate in workshops, hearings, and outdoor power plant site visits and inspections. Additional hours beyond an eight-hour workday or forty-hour workweek may be required.

SIGNATURES	
I Certify That I Am Able To Perform, With Or Without The Assistance Of A Reasonable Accommodation, The Essential Job Duties Of This Position	
_____ Employee Date Mechanical Engineer	_____ Matthew Layton Date Supervising Mechanical Engineer